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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,564	07/30/2003	Hao-Chieh Chang	4444-0121P	6454
2292 7590 08/28/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAMINER ONUAKU, CHRISTOPHER O	
			ART UNIT 2621	PAPER NUMBER
			NOTIFICATION DATE 08/28/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary

Application No.

10/629,564

Applicant(s)

CHANG ET AL.

Examiner

Christopher Onuaku

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "said de-interlaced audio signal" in line 13, and the limitation "de-interlaced audio signal" in line 14. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-6,8,9,11-13&15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kovacevic (US 7,030,930).

Regarding claim 1, Kovacevic discloses a system and methods for presenting processed audio data and processed video data to corresponding outputs in a synchronized manner, the method comprising providing a modulated interlacing video signal and an analog audio signal, demodulating and de-interlacing said modulated interlacing video signal to convert said modulated interlacing video signal to a digitized de-interlaced video signal (see col.4, lines 38-53), processing digital transformation of said analog audio signal for digitizing said analog audio signal to obtain a digital audio signal (see col.3, lines 40-58), compressing said de-interlaced video signal to obtain a compressed de-interlaced video signal compressing said digital audio signal to obtain a compressed digital audio signal, synchronizing said compressed de-interlaced video signal and said compressed digital audio signal to obtain a synchronized compressed video signal and compressed audio signal (see col.4, lines 54 to col.5, line 15), and outputting said synchronized compressed video signal and compressed audio signal to a processing unit of said digital product for selecting from recording or displaying or both recording and displaying of said synchronized compressed video signal and compressed audio signal (see Fig.1-4, col.3, line 9 to col.5, line 55).

Regarding claim 2, the claimed limitations of claim 2 are accommodated in the discussions of claim 1 above, including the claimed PC (see col.11, line 66 to col.12, line 15).

Regarding claim 3, Kovacevic discloses wherein the apparatus further includes a digital video signal decoding unit, the digital video signal decoding unit demodulating a modulated interlacing video signal to obtain a digitized dynamic video signal (see col.3, lines 25-40 and col.4, lines 38-53).

Regarding claim 4, Kovacevic discloses wherein the apparatus further includes a de-interlacing unit, said interlacing unit de-interlacing a dynamic video signal to convert said interlacing video signal to a de-interlaced dynamic video signal (see Fig.1, graphics accelerator 110; col.4, lines 38-53).

Regarding claim 5, Kovacevic discloses wherein the apparatus further includes an audio signal analog/digital converting unit, said audio signal analog/digital converting unit putting an analog audio signal under digital transformation to obtain a digital audio signal (see Fig.1, multi-standard decoder 130, col.3, lines 40-58).

Regarding claim 6, Kovacevic discloses wherein the apparatus further includes an outputting bus interface unit, said outputting bus interface unit outputting said synchronized compressed video signal and compressed audio signal for displaying said synchronized compressed video signal and compressed audio signal (see col.5, lines 1-55).

Regarding claim 8, Kovacevic discloses wherein the outputting bus interface unit is a PCI (see Fig.2, PCI Bus 22; col.7, lines 27-42).

Regarding claim 9, the claimed limitations of claim 2 are accommodated in the discussions of claims 1&2 above, including the claimed digital video signal decoding unit, which demodulating a modulated interlacing video signal to obtain a digitized dynamic video signal (col.5, lines 24-31).

Regarding claim 11, the claimed limitations of claim 11 are accommodated in the discussions of claim 8 above.

Regarding claim 12, the claimed limitations of claim 12 are accommodated in the discussions of claim 9 above.

Regarding claim 13, the claimed limitations of claim 13 are accommodated in the discussions of claim 9 above

Regarding claim 15, the claimed limitations of claim 15 are accommodated in the discussions of claim 8 above.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 7, 10 & 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kovacevic in view of Margulis (US 6,263,503)

Regarding claim 7, Kovacevic fails to explicitly disclose wherein outputting bus interface unit is a USB. Margulis teaches enhanced television systems, including method for effectively implementing a wireless television system comprising a wireless base station that processes and combines various program sources to produce a processed stream, including a remote TV 158 which comprise a serial port 750, such as a universal serial bus (USB), for connecting remote TV 158 to a host personal computer to thereby allow various interactive processed, including performance setup, data exchange, and backup procedures for remote TV 158 (see Fig. 1 & 7; col. 12, lines 4-14). USB interface means provides the desirable advantage of use in connecting peripherals, for example remote TV, to host personal computer to thereby allow various interactive processes, including performing setup, data exchange, and backup procedures for the remote TV.

It would have been obvious to modify Kovacevic by realizing Kovacevic with a USB means, since USB interface means provides the desirable advantage of use in connecting peripherals, for example remote TV, to host personal computer to thereby

allow various interactive processes, including performing setup, data exchange, and backup procedures for the remote TV, as taught by Margulis.

Regarding claim 10, the claimed limitations of claim 10 are accommodated in the discussions of claim 7 above.

Regarding claim 14, the claimed limitations of claim 14 are accommodated in the discussions of claim 7 above.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sha et al (US 7,142,251) teach video data processing, including a video input processor to process different formats of video data including video format conversion, color space conversion, and multiple video input enhancement processing prior to video compression.

Velez et al (US 6,678,006) teach a method and apparatus for processing DVD video data and sub-picture data by storing a line of DVD video data and at least a partially decoded portion of DVD sub-picture data.

Walters (US 6,459,454) teach the field of digital video, including systems for adaptively converting interlaced fields of video into progressive frames on a per pixel basis.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Onuaku whose telephone number is 571-272-7379. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


COO

8/10/07.



JOHN MILLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600